



National Weather Service

Storm Data and Unusual Weather Phenomena



January 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
					Killed	Injured				

SOUTH DAKOTA, West

SDZ001-013-031>032 **Harding - Meade Co. Plains - Pennington Plains - Haakon**

04	1239MST	0	0	High Wind (G58)^M
	1739MST			

A high wind event produced sustained wind speeds of 40 to 47 mph over northwestern South Dakota for several hours during the afternoon. A gust to 58 mph was measured at the Faith ASOS in Meade county.

SDZ049

Tripp

13	1200MST	0	0	Winter Storm
14	0600MST			

Freezing rain began during the morning of Jan 13 over central South Dakota. Shortly afternoon a mix of rain and snow changed to all snow and began accumulating. By early morning on Jan 14, 12 inches of snow was reported in Colome. Winner reported 8 inches of snow, with the other reports across the county falling in the 8-12 inch range. Northwest winds 20 to 30 mph caused blowing snow which reduced visibility to less than a half mile at times, and drifts several feet deep were reported. Snow falling on icy roads from the freezing rain made driving dangerous. Several minor auto accidents were reported during the evening of Jan 13.

SDZ025

Northern Foot Hills

25	0223MST	0	0	High Wind (G69)^M
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A cooperative observer measured a non-convective wind gust of 69 mph after midnight on Jan 25th.

SDZ001-031

Harding - Pennington Plains

25	1906MST	0	0	High Wind (G56)^M
26	0700MST			

Winds increased through the late afternoon and evening on January 25th and overnight into the early morning of Jan. 26th. Across Harding County winds were sustained at 51 mph with a gust to 56 mph, and the Rapid City airport had sustained winds at 43 mph.

SDZ032-043>044-046>047-049 **Haakon - Jackson - Bennett - Mellette - Todd - Tripp**

29	0600MST	0	0	Winter Storm
30	1808MST			

Around sunrise snow began over Tripp County Jan 29. By noon the area of snow covered much of south central South Dakota. Periods of heavy snow occurred during the evening hours of Jan 29. By 4 am MST Jan 30, 6 to 12 inches blanketed most of south central South Dakota, with a majority of reports being in the 8 to 12 inch range. Haakon County, on the far northern and western edge of the heavy snow, had 4 to 7 inches across the county. Combined with the snow, strong northwest winds 25 to 35 mph with gusts to 40 mph produced near blizzard conditions overnight. The winds caused significant blowing and drifting snow. Visibilities were often below 1/2 mile. The morning of Jan 30 snow drifts of 6 to 8 feet were reported across Tripp County, and 3 to 5 foot drifts covered much of the remainder of south central South Dakota. Light snow and flurries persisted through the day Jan 30th as strong winds slowly weakened. Little additional accumulation was noted through the day Jan 30, but blowing and drifting snow continued to cause minor problems into the afternoon.

SDZ001-013>014-026-030>032

Harding - Meade Co. Plains - Ziebach - Central Foot Hills - Custer Plains - Pennington Plains - Haakon

29	2358MST	0	0	High Wind (G66)^M
30	1600MST			

A tight surface pressure gradient produced persistent strong winds across northwestern South Dakota from just prior to midnight Jan 29, through the night and most of the day on Jan 30th. Winds were sustained 30 to 40 mph with gusts to over 60 mph were common during the morning hours of Jan 30.



National Weather Service

Storm Data and Unusual Weather Phenomena



February 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ001

Harding

03 1224MST
1530MST

0 0

High Wind (G54)^M

A tight surface pressure gradient combined with strong winds just off the surface which were able to mix to the surface...high winds developed over Harding County.

SDZ001>002-012>014-
024>032-042>043

Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Shannon - Jackson

06 1530MST
08 1200MST

0 0

Winter Storm

A digging upper level trough over the Southwestern United States supported an overrunning/warm front pattern to develop over the northern plains and along the front range of the central and northern Rockies. Strong low level, moisture laden warm air moved over cold air already in place over the northern plains. Snowfall developed quickly over western South Dakota during the afternoon and evening of Feb. 6. By early the morning of the 7th, heavy snow had fallen over much of western South Dakota. Nearly every county in western South Dakota reported 6 to 9 inches. The heaviest snow fell in a wide swath from the northern and central Black Hills, across Meade, and into Ziebach counties. In this area of heaviest snow, most reported snowfall was 8 to 12 inches. A significant area in the Central and Northern Black Hills recieved more than 18 inches.

SDZ029

Southern Black Hills

14 0300MST
1300MST

0 0

Heavy Snow

A potent short wave moved across the northern plains after midnight Feb. 14th. Much of southwestern South Dakota received a quick shot of generally 1 to 4 inches of snow in the pre-dawn hours. The southern Black Hills picked up 5 inches of snow by 5 am, and reported a total of 8 inches 23 miles northwest of Edgemont by 845 am. Due to the banded nature of the snowfall, the heavy snow was very localized over the southern Black Hills.

SDZ032-043>044-049

Haakon - Jackson - Bennett - Tripp

24 0700MST
2040MST

0 0

Winter Storm

A strong surface low moving out of the central Rockies spread significant snowfall over central Nebraska and into south central South Dakota. Snowfall reports from south central South Dakota were consistently 8 to 12 inches. The bulk of this snow fell during the daytime hours on Feb. 24th.

WYOMING, Northeast

WYZ054>058

Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston

06 1530MST
07 1015MST

0 0

Winter Storm

A digging upper level trough over the Southwestern United States supported an overrunning/warm front pattern to develop over the northern plains and along the front range of the central and northern Rockies. Strong low level, moisture laden warm air moved over cold air already in place over the northern plains. Snowfall developed quickly over western South Dakota during the afternoon and evening of Feb. 6, and spread into Northeastern Wyoming. By early the morning of the 7th, heavy snow had fallen over nearly all of northeastern Wyoming. Campbell, Crook, and Weston counties were covered with 8 to 10 inches. The heaviest snow fell in the Bear Lodge Mountains and Wyoming Black Hills, where 9 to 18 inches of snowfall were widely reported.



National Weather Service

Storm Data and Unusual Weather Phenomena



March 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

SDZ001

Harding

12 1356MST
1655MST

0 0

High Wind (G62)^M

A very tight pressure gradient developed behind a cold front. Strong low-level winds were also able to mix to the surface. Winds over Harding County were sustained at 40 to 45 mph with gusts to 62 mph for just a few hours during the afternoon.

Lawrence County

4 SE Whitewood

12 1545MST

0 0

Thunderstorm Wind (G64)^M

Pennington County

Rapid City

12 1615MST

0 0

Thunderstorm Wind (G60)^M

Meade County

(Rca)Ellsworth Afb R

12 1625MST

0 0

Thunderstorm Wind (G61)^M

Convective showers developed due to diurnal heating. Occasional lightning accompanied the showers. Strong low level winds were brought to the surface with downdrafts from the stronger cells.

SDZ024>025-028>029-041 Northern Black Hills - Northern Foot Hills - Central Black Hills - Southern Black Hills - Fall River Co.

14 1300MST
15 0404MST

0 0

Winter Storm

A strong storm system developed rapidly over the northern Rockies in the predawn hours of March 14. Copious amounts of moisture were available to this system as it moved across Wyoming and into the Nebraska Panhandle. The low-level thermal structure of the atmosphere was critical in this storm. A mix of rain and snow was anticipated, and indeed a mix of rain and light snow occurred over much of Northeastern Wyoming and Western South Dakota. In the higher elevations of the Black Hills, the precipitation changed to all snow, and remained snow for much of the event. The change-over to snow occurred by 1:00 pm MST in the Black Hills. Over the ensuing 12 hours 7 to 10 inches of snow fell over foothills around the Black Hills, with 10 to 18 inches over the Black Hills. The heaviest snow fell in the Northern Black Hills where 12 to 18 inches fell. Deadwood, SD reported the heaviest total accumulation of 18.7 inches. Strong winds of 20 to 35 mph accompanied this storm and produced considerable blowing and drifting snow through the event.

WYOMING, Northeast

WYZ057

Wyoming Black Hills

14 0950MST
15 0404MST

0 0

Winter Storm

A strong storm system developed rapidly over the northern Rockies in the predawn hours of March 14. Copious amounts of moisture were available to this system as it moved across Wyoming and into the Nebraska Panhandle. The storm began as rain with an expected change over to snow, especially in the higher elevations of the Bear Lodge Mountains. The change-over occurred by 950 am MST. Over the ensuing 18 hours 7 to 10 inches of snow fell over eastern Crook County. Hulett, Wyoming reported 10 inches of total accumulation by early morning of the 15th. Strong winds of 20 to 35 mph accompanied this storm and produced considerable blowing and drifting snow through the event.



National Weather Service

Storm Data and Unusual Weather Phenomena



April 2001

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property Damage	Crops	

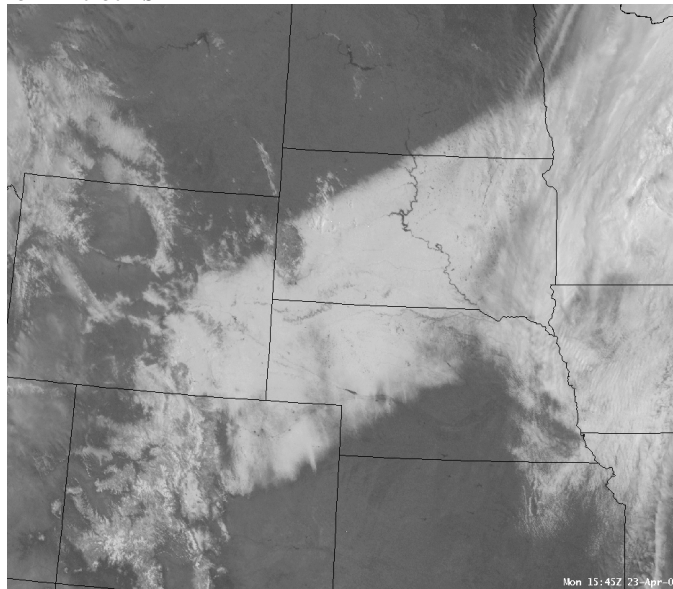
SOUTH DAKOTA, West

SDZ013-024>032-041>044- Meade Co. Plains - Northern Black Hills - Northern Foot Hills - Central Foot Hills - Southern Foot Hills - Central Black Hills - Southern Black Hills - Custer Plains - Pennington Plains - Haakon - Fall River Co. - Shannon - Jackson - Bennett - Mellette - Todd - Tripp

22 0000MST
23 0430MST

0 0

Winter Storm



Visible Satellite image from 1545Z Monday, April 23, 2001. Area of snowfall depicted over western South Dakota. Note the sharp, well defined edge of the snow-no snow line.

A closed upper level low over the central Rockies was deepening as a surface low developed over southeastern Colorado. Strong 700mb warm air advection over-ran cold air at the surface. The atmosphere over northeastern Wyoming and western South Dakota was saturated, with additional moisture being advected in. 300mb Jet streaks were producing strong divergence aloft and robust 500mb omega set up along the deformation zone. These features combined to produce heavy snowfall over much of southwestern and southern South Dakota for several hours. The precipitation began as rain in the warm over-running air. This rain quickly changed to snow and accumulated rapidly. The area of snowfall with this system extended in a 300 mile wide path from northern Colorado to eastern South Dakota. The path was defined by sharp edges as seen in satellite images. The heaviest snow fell over the eastern foothills and eastern Black Hills where local upslope effects dramatically affected snowfall amounts. The area of maximum snowfall extended from southern Meade County westward to the central and southern Black Hills where 12 to 22 inches covered the ground. Rapid City, in the eastern foothills, recorded a daily snowfall record of 20 inches. Elsewhere across the plains of southwestern and south-central South Dakota 6 to 12 inches of snow were reported.



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

Harding County

Buffalo	01	0144MST 0224MST			0	0		Thunderstorm Wind (G66) ^M
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Butte County

Belle Fourche	01	0219MST			0	0		Thunderstorm Wind (G60)
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Lawrence County

Deadwood	01	0230MST			0	0		Thunderstorm Wind (G60)
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Meade County

Sturgis	01	0240MST			0	0		Thunderstorm Wind (G60)
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A potent upper level short wave was moving across eastern Montana and into northwestern South Dakota. With a moist and unstable atmosphere in place, a line of thunderstorms developed along the Montana and Wyoming border and moved into northwestern South Dakota. Strong outflow from these thunderstorms produced a strong and persistent gust front that moved across northwestern South Dakota.

SDZ001-013-025-031

Harding - Meade Co. Plains - Northern Foot Hills - Pennington Plains

01		0256MST 0600MST			0	0		High Wind (G64) ^M
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A potent short wave moved across the Montana/Wyoming border and into northwestern South Dakota after midnight. A line of thunderstorms developed as the wave moved across northeastern Wyoming and northwestern South Dakota. As the line of storms moved into northwestern South Dakota it encountered more stable and drier air. The thunderstorms quickly dissipated after producing a strong and persistent gust front. Behind the gust front a very tight pressure gradient was established. High winds in excess of 40 mph sustained with gusts to 64 mph were noted over the area. The high winds persisted for few hours before subsiding as the pressure gradient relaxed.

Custer County

Pringle	09	1550MST 1600MST			0	0	0	Hail(1.75)
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Custer County

5 N Pringle	09	1600MST 1610MST			0	0	0	Hail(1.00)
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Custer County

Wind Cave	09	1605MST 1615MST			0	0	0	Hail(0.75)
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Custer County

6 E Wind Cave	09	1610MST 1620MST			0	0	0	Hail(0.75)
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Fall River County

1 NE Oral	09	1630MST 1640MST			0	0	0	Hail(0.75)
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Custer County

Buffalo Gap	09	1635MST 1645MST			0	0	0	Hail(0.75)
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An isolated supercell thunderstorm developed and moved across southern Custer County. As it strengthened, this storm began to move to the right of the mean low level wind. The storm began to move southeast and it crossed into northeastern Fall River County, where it weakened.

Fall River County

Provo	10	1628MST 1638MST			0	0	0	Hail(0.88)
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Fall River County

2 N Ardmore	10	1630MST 1645MST			0	0	0	Hail(0.75)
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May 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

An isolated severe thunderstorm moved out of eastern Wyoming and across western Fall River county. The storm became a supercell and exhibited a movement to the right of the mean low level wind flow. The storm moved south-southeast across the county.

SDZ001>002-012>014-026-031>032-043>044-046>047-049 **Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Central Foot Hills - Pennington Plains - Haakon - Jackson - Bennett - Mellette - Todd - Tripp**

20	0207MST	0	0			High Wind (G60) ^M
23	1435MST					

A deep cut off upper level low pressure system persisted over Minnesota for several days. The associated surface low was over Minnesota, as the system was "stacked" vertically. A very tight surface pressure gradient existed over the Dakotas from May 20th through the afternoon of the 23rd. The low level pressure gradient was very tight as well, with 35 to 60 mph winds only a few thousand feet above the surface. Strong winds were observed over western South Dakota these 4 days. With day time heating, the boundary layer became mixed and the high winds aloft were able to reach the surface at times, producing surface winds of 30 to 45 mph with very occasional gusts to 55 to 60 mph. Overnight winds subsided, but still blew 20 to 30 mph with gusts to 45 mph. The winds caused no damage, however the 4 day duration of these strong winds was certainly an unusual event over western South Dakota.

Mellette County
White River

31	1310MST 1320MST	0	0	0	Hail(1.25)
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Mellette County
4 S White River

31	1327MST 1337MST	0	0	0	Hail(1.00)
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Todd County
Mission

31	1342MST 1352MST	0	0	0	Hail(1.75)
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Todd County
2 E Mission

31	1353MST 1403MST	0	0	0	Hail(0.75)
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Todd County
14 S Mission

31	1414MST 1424MST	0	0	0	Hail(0.88)
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An isolated severe thunderstorm moved south-southeast across Mellette County into Todd County. The storm produced large hail across both of these counties, and continued to maintain strength as it crossed the state line into northern Nebraska.

Todd County
Mission

31	1322MST 1330MST	0	0		Funnel Cloud
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Two funnel clouds were reported by law enforcement and county school officials in Mission.

WYOMING, Northeast

Campbell County
Gillette Arpt

01	0107MST	0	0		Thunderstorm Wind (G60) ^M
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Campbell County
Echeta

01	0142MST	0	0		Thunderstorm Wind (G75) ^M
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An small line of thunderstorms moved along the Montana/Wyoming border shortly after midnight. The line of storms was associated with a potent upper level shortwave. Outflow from these storms produced a strong and persistent gust front across Campbell County.

Weston County
Upton

28	1705MST 1712MST	0	0	0	Hail(0.75)
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An isolated severe thunderstorm produced dime sized hail over Upton for 7 minutes.



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2001

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

WYOMING, Northeast

Campbell County

4 S Gillette to
Gillette

28

1920MST
2230MST

0

0

400K

Flash Flood

Heavy rain began falling over the Donkey Creek drainage, just south of Gillette, around 5 pm MST. Rainfall rates over 2 inches per hour were recorded. A National Weather Service spotter recorded a storm total precipitation amount of 7.5 inches during the evening. Donkey Creek quickly rose to flood stage, tearing up paved golf cart paths and a service bridge located at the Gillette Country Club. Water depth was recorded at 4ft by a water mark on a stop sign at Four J Road near Southern Drive at 7 pm MST. In downtown Gillette, several cars were reported floating down the street, and numerous businesses had 1 to 2 feet of water on the first floor. There were no injuries or fatalities, however one man was rescued from a stalled vehicle in chest deep water.

Crook County

6 S Devils Tower

29

1621MST
1631MST

0

0

0

Hail(0.88)

Crook County

10 NW Sundance

29

1644MST
1654MST

0

0

0

Hail(0.75)

An isolated severe thunderstorm moved across Crook County. The storm produced dime to nickle sized hail.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ014

Ziebach

03 1522MST **0 0** **High Wind (G58)^M**

A cooperative observer measured a non-thunderstorm wind gust 13 miles west of Cherry Creek.

Tripp County

14 NE Winner

06 1151MST 0.5 50 0 0 0 Tornado (F0)
1152MST

A tornado was on the ground for one minute, but caused no damage.

Tripp County

7 NW Winner

06 1202MST 0.5 50 0 0 5K Tornado (F1)
1203MST

A tornado touched down for "about a minute", reported the law enforcement officer who witnessed it. The storm tore the metal roof off a 90 foot hog barn and blew down two old sheds. Two trees, about a foot in diameter, were uprooted.

Tripp County

Winner

06 1215MST 0 0 0 Hail(0.88)

Tripp County

Colome

06 1225MST 0 0 0 Hail(0.75)

Lawrence County

8 W Spearfish

08 0910MST 0 0 0 Hail(0.75)
0915MST

Shannon County

5 N Pine Ridge

09 0030MST 1 1 1K Lightning
0100MST

Two teenagers on horseback encountered a thunderstorm as they were traveling from Pine Ridge to Manderson. One rider told authorities he was knocked unconscious after seeing a bright flash of light. When he awoke, he found his riding partner on the ground, not breathing or moving. One fatality (direct) and one injury occurred from lightning. The horse was also killed. M17QU

Shannon County

1 N Pine Ridge

09 0145MST 0 0 Hail(1.75)

Pennington County

**4 SW Rapid City to
3 SW Rapid City**

09 1605MST 0 0 Hail(2.75)
1610MST

Pennington County

4 SE Rapid City

09 1613MST 0 0 Hail(0.75)

Pennington County

Rapid City Arpt

09 1630MST 0 0 Hail(0.75)

Pennington County

(Rap)Rapid City Arpt

09 1649MST 0 0 Thunderstorm Wind (G69)^M

Pennington County

Rapid City

09 1650MST 0 0 Hail(0.75)

Two severe thunderstorms moved over nearly the same area within 45 minutes of each other. The first moved across the south side of Rapid City, producing golfball to baseball sized hail and 69 mph wind gusts. The second storm moved across the north side of Rapid City, originating southeast of Black Hawk in Meade County and moving along the Meade/Pennington County line. This second storm produced large hail.

Pennington County

2 NE Owanka

09 1710MST 0 0 Hail(0.88)



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Custer County									
Hermosa to 14 E Hermosa	09	1711MST 1715MST			0	0			Thunderstorm Wind (G75)
75 mph thundestorm wind gusts were estimated by a spotter in Hermosa and a cooperative observer 14 miles east of Hermosa about four minutes later.									
Custer County									
12 E Hermosa	09	1722MST			0	0			Hail(0.75)
Pennington County									
Scenic	09	1735MST 1740MST			0	0			Hail(0.75)
Pennington County									
Scenic	09	1735MST			0	0			Thunderstorm Wind (G65)
Shannon County									
5 N Kyle	09	1740MST			0	0			Thunderstorm Wind (G60)
Jackson County									
Cottonwood	09	1745MST			0	0			Thunderstorm Wind (G70)
A storm chaser estimated 70 mph winds from a thunderstorm gust front as he was driving 65 mph.									
Jackson County									
Cedar Pass	09	1745MST			0	1			Thunderstorm Wind (G58)^M
A person at the Badlands National Park Cedar Pass Campground was injured when a table broke and hit him in the head. Time of the wind was estimated from the RAWS observation.									
Jackson County									
4 SE Interior	09	1750MST			0	0			Thunderstorm Wind (G65)
Shannon County									
4 NE Porcupine	09	1750MST			0	0			Thunderstorm Wind (G65)^M
A RAWS measured a 65 mph thunderstorm wind gust. Time is estimated.									
Haakon County									
Philip to Philip Arpt	09	1755MST 1800MST			0	0	3M		Thunderstorm Wind (G70)
Strong winds hit the Philip area. A large grain bin was moved about 15 feet off its foundation and buckled. Part of the elementary school's roof was torn off. On the north side of town, three grain bins were rolled down a hill. The town had extensive tree damage; many streets were blocked by the downed trees and branches. The emergency manager estimated that 70 percent of the houses in town would have to be reshingled. At the airport three miles east of town, part of a hangar collapsed and fell on an airplane. The power went out before the storm reached the airport, so no wind data was available from the ASOS. The sheriff commented that the wind felt stronger than winds measured at 83 mph during a storm a couple of years ago.									
Jackson County									
Wanblee	09	1800MST			0	2	382.5K		Thunderstorm Wind
A microburst from a thunderstorm produced damaging winds in Wanblee. Nine homes were destroyed. The roofs of seven homes were blown off with major damage to structural walls in other homes. Two persons were treated for injuries at a hospital. One injury (direct) occurred when a door hit a woman during the storm. The cause and extent of the injury to the other person is not known.									
Jackson County									
Kadoka	09	1805MST 1815MST			0	0			Thunderstorm Wind (G80)
A law enforcement officer estimated a 75 mph wind gust at 605 pm and an 80 mph gust 10 minutes later.									



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June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Mellette County									
White River	09	1845MST			0	0			Thunderstorm Wind (G70)
Todd County									
2 SW Parmelee	09	1858MST			0	0			Thunderstorm Wind (G60)
Tripp County									
Winner	09	2007MST			0	0			Hail(0.75)
Lawrence County									
8 S Deadwood	12	0935MST			0	0			Hail(0.75)
Lawrence County									
4 S Deadwood	12	0945MST			0	0			Hail(0.75)
Fall River County									
10 W Edgemont	12	1545MST			0	0			Funnel Cloud
Fall River County									
15 SW Provo	12	1550MST 1555MST			0	0			Hail(1.00)
Fall River County									
15 SW Provo	12	1550MST	2	100	0	0			Tornado (F0)
Fall River County									
10 S Provo	12	1605MST	5	100	0	0			Tornado (F0)
A tornado developed southwest of Provo along with quarter sized hail. The storm was next spotted by an off duty NWS employee who observed the tornado south of Provo.									
Meade County									
Piedmont	12	1634MST 1644MST			0	0			Hail(0.75)
Fall River County									
15 E Ardmore	12	1705MST	5	100	0	0			Tornado (F0)
A funnel cloud was observed over Ardmore, several minutes later as the parent thunderstorm was about 15 miles east of Ardmore, a brief tornado formed. This tornado was described as large (wide) and was observed from 15 miles away.									
Fall River County									
Oelrichs	12	1715MST 1725MST			0	0			Hail(2.50)
Fall River County									
3 S Oelrichs	12	1725MST 1735MST			0	0			Hail(4.50)
Shannon County									
13 W Oglala	12	1744MST 1754MST			0	0			Hail(1.00)
Shannon County									
13 W Oglala	12	1744MST			0	0			Thunderstorm Wind (G60)
Shannon County									
Slim Butte	12	1810MST	1	25	0	0			Tornado (F0)
Brief tornado reported by public.									
Shannon County									
Pine Ridge	12	1845MST			0	0			Hail(1.75)
Shannon County									
10 W Kyle	12	1900MST			0	0			Thunderstorm Wind (G60)
Thunderstorms winds "strong enough to knock people over" were reported at Sharps Corner									
Pennington County									
12 N Wall	12	1930MST			0	0			Thunderstorm Wind (G58)



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Several tree limbs were blown down.

Bennett County									
5 W Martin	12	2100MST			0	0			Hail(0.88)
Todd County									
Rosebud	12	2130MST			0	0			Hail(0.88)
Todd County									
2 N Mission	12	2150MST			0	0			Hail(1.00)
50 mph winds accompanied the hail.									
Todd County									
7 SW St Francis	12	2210MST			0	0			Hail(1.75)
Todd County									
St Francis	12	2230MST			0	0			Hail(1.75)
Todd County									
7 NE Rosebud to 15 NE Rosebud	12	2200MST 2230MST			0	0			Hail(0.75)
22 houses had windows broken by the hail; seven houses were badly damaged.									
Tripp County									
Ideal	12	2307MST			0	0			Hail(0.75)
Tripp County									
Ideal	13	0005MST			0	0			Thunderstorm Wind (G52)^M
Jackson County									
Potato Creek	14	1055MST 1105MST			0	0	0		Hail(0.88)
A severe thunderstorm produced dime to nickle sized hail.									
Perkins County									
9 SW Prairie City	17	0500MST			0	0	0		Hail(1.75)
Ziebach County									
Dupree	17	0705MST			0	0	0		Hail(1.75)
Ziebach County									
23 SE Dupree	17	0745MST			0	0	0		Hail(1.75)
An isolated severe thunderstorm moved from southeastern Montana across northwestern South Dakota just after sunrise. The thunderstorm produced small hail as it moved over northwest South Dakota. then intensified and produced large hail									
Jackson County									
Belvidere to 8 NE Belvidere	17	2215MST 2230MST			0	0	0		Hail(0.75)
Harding County									
Ludlow	18	0315MST			0	0	0		Thunderstorm Wind (G60)^M
Perkins County									
Lemmon to .5 S Lemmon	18	0420MST			0	0	0		Hail(2.00)
One inch hail was reported in the town of Lemmon, with two inch hail just south of town.									
Pennington County									
Sheridan	24	1545MST			1	2			Lightning
Nine people were standing on the beach and in the water at Sheridan Lake when lightning hit the beach. Six of the people including one who was in water were dazed and confused. Two injuries (direct), a one year old child and a teen-age girl, were treated at a hospital. The child was in critical condition for a couple days. One fatality (direct) was an adult woman, the child's grandmother. F39OU									



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Perkins County

White Butte	25	0005MST			0	0	0		Hail(1.50)
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Lawrence County

8 W Spearfish	25 28	2000MST 1900MST			0	0	0		Wild/Forest Fire
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Lightning ignited fires on Bowman Ridge and Crow Peak in Western Lawrence county, near the Wyoming/South Dakota border the evening of June 25. By the morning of the 28th of June, the fire was contained after consuming 30 acres. Three, 20-person fire crews assisted the Bear Ridge Volunteer Fire Dept with the fire. Additionally, a helicopter and tanker plane assisted with several drops of slurry (a flame retardant mix).

Butte County

Newell	27	1315MST			0	0	3K		Thunderstorm Wind (G60)
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Strong winds blew the roof off a garage. The "crows nest" observation tower at high school football stadium was also blown over

Harding County

11 NE Redig	27	1345MST			0	0	3K		Thunderstorm Wind (G60)
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A workshop collapsed during a thunderstorm.

Pennington County

10 SW Hill City to 9 SW Hill City	29	1255MST 1258MST			0	0	0		Hail(1.25)
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Todd County

Mission	29	1624MST 1634MST			0	0	0		Hail(0.75)
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Todd County

14 S Mission	29	1645MST 1655MST			0	0	0		Hail(0.88)
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Todd County

22 S Mission	29	1700MST 1710MST			0	0	0		Hail(1.00)
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A severe thunderstorm moved across Todd County with 3/4 inch to 1 inch hail.

Lawrence County

5 W Spearfish	30	0443MST			0	0			Thunderstorm Wind (G58) ^M
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A storm spotter measured a 58 mph wind gust during an early morning thunderstorm.

Pennington County

13 W Rapid City	30	1425MST 1435MST			0	0	0		Hail(1.00)
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Pennington County

2 NE Silver City	30	1435MST 1445MST			0	0			Hail(0.75)
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Pennington County

3 N Sheridan	30	1440MST 1450MST			0	0			Hail(1.25)
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Pennington County

Sheridan	30	1500MST 1510MST			0	0	0		Hail(1.75)
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Pennington County

Hill City	30	1529MST 1530MST			0	0	0		Hail(1.00)
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Pennington County

Hill City	30	1529MST			0	0	0		Thunderstorm Wind (G70) ^M
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Pennington County

2 W Keystone	30	1530MST 1540MST			0	0			Hail(1.00)
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National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Pennington County

3 S Hill City to 4 S Hill City	30	1532MST 1555MST			0	0			Hail(1.75)
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Custer County

6 NNE Custer	30	1548MST 1558MST			0	0	0		Hail(1.75)
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Custer County

2 N Blue Bell	30	1550MST 1600MST			0	0	0		Hail(1.75)
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Pennington County

5 S Hill City to 6 S Hill City	30	1605MST 1610MST			0	0	0		Hail(2.75)
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Custer County

Blue Bell	30	1637MST 1647MST			0	0			Hail(0.75)
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A severe thunderstorm developed over the central Black Hills. It dropped large hail as it moved across Pactola Reservoir, Sheridan Lake, Hill City, Mt. Rushmore, and Custer State Park. The hail did extensive damage to buildings, windows, roofs, and vehicles

Lawrence County

Cheyenne Crossing	30	1833MST 1835MST			0	0	0		Hail(0.75)
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Pennington County

4 NW Rapid City	30	1850MST 1900MST			0	0	0		Hail(1.50)
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One to 1.5 inch hail was reported at the Windmill Truckstop in northwestern Rapid City.

WYOMING, Northeast

Campbell County

12 W Wright	03	1325MST 1330MST			0	0	0		Hail(0.88)
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Campbell County

2 NE Echeta	03	1330MST			0	0	0		Thunderstorm Wind (G73) ^M
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Campbell County

Weston	03	1400MST			0	0	0		Thunderstorm Wind (G60)
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A severe thunderstorm moved across northern Campbell County. The storm produced wind gusts to 73 mph measured by the RAWS near Echeta (time was estimated) and downed several large tree limbs in the town of Weston.

Crook County

10 SW Aladdin	04	1750MST 2359MST			0	0			Urban/Sml Stream Fld
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Weston County

Upton	04	1750MST 2359MST			0	0	0		Urban/Sml Stream Fld
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Locally heavy rain produced minor flooding over rural areas of Crook and Weston Counties during the evening hours. Small streams rose out of their banks and 6 inches of standing water was reported on highways. By 8 pm MST the rain had tapered off, and by midnight, the streams had receded back within their banks.

Campbell County

2 NW Echeta	08	1915MST			0	0	0		Hail(0.88)
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Campbell County

Recluse	08	1935MST			0	0	0		Hail(1.00)
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A severe thunderstorm moved across northern Campbell county. The storm produced dime to quarter sized hail.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm
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WYOMING, Northeast

Campbell County

7 SE Rozet	09	1419MST 1422MST			0	0		Hail(1.00)
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Crook County

8 NW Moorcroft to 2 NE Moorcroft	09	1420MST 1430MST			0	0		Hail(1.00)
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Crook County

4 S Moorcroft	09	1426MST 1436MST			0	0		Hail(0.88)
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Several thunderstorms developed over northeastern Wyoming along a surface trough was associated with an upper level shortwave. Storms quickly became severe and produced large hail.

Weston County

6 SW Rochelle	09	1530MST			0	0		Thunderstorm Wind (G67) ^M
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Weston County

Newcastle to 1 S Newcastle	09	1550MST 1600MST	0.5	10	0	2		Tornado (F0)
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A low pressure system over Wyoming pulled middle 60s dew points into the region all day. A surface trough moved across northeastern Wyoming initiating thunderstorms. A moderate upper level short wave provided support for sustained organized thunderstorms to become severe. Strong instability was noted with CAPE values around 4000 J/kg with moderate shear in the lower 6km of the atmosphere. A thunderstorm developed over Weston County, with 67 mph winds measured at the RAWs southwest of Rochelle (time was estimated) and spawning a tornado over the southeast side of Newcastle. Several reports of tornado sightings and tree damage were received during the 10 minutes the tornado was on the ground. Tree limbs were thrown over 150 feet, breaking windows and downing power lines. Several large trees were uprooted. A facade of a Forest Service shop building collapsed and a carport was destroyed. Two people received minor injuries from flying debris.

Campbell County

3 S Gillette to 5 SE Gillette	12	1227MST 1240MST	2	25	0	0		Tornado (F0)
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An F0 tornado developed quickly 3 miles south of Gillette. The tornado was on the ground for just 13 minutes as it moved southeast. Gillette Fire Dept. reported the tornado touching down. The storm moved over an oil field where it did minor damage to oil treating equipment.

Campbell County

10 S Gillette to 14 SE Gillette	12	1230MST	9	25	0	0	0	Tornado (F0)
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Law enforcement reported a tornado touching down 10 miles south of Gillette. The storm moved southeast 4 miles downing numerous power lines.

Campbell County

10 S Gillette	12	1240MST			0	0		Hail(1.75)
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Weston County

5 N Osage	12	1335MST			0	0		Hail(1.00)
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Weston County

Clareton	12	1409MST			0	0		Hail(1.00)
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Weston County

15 W Osage	12	1415MST			0	0		Hail(0.75)
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Weston County

Clareton	12	1416MST			0	0		Hail(1.00)
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Weston County

Upton	12	1510MST			0	0		Hail(1.75)
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National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
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WYOMING, Northeast

Weston County

Newcastle	12	1522MST			0	0			Hail(1.00)
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Weston County

5 N Osage	12	1535MST			0	0			Hail(1.00)
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Weston County

17 S Newcastle	12	1542MST			0	0			Hail(0.75)
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Several severe and tornadic thunderstorm developed and moved across northeastern Wyoming. Most storms produced brief tornados, however other thunderstorms did manage to produce large hail. Some of the tornadic storms produced large hail along with the tornado, and even continued to produce large hail after the tornados had dissipated.

Campbell County

30 SSE Gillette to 30 SE Gillette	12	1250MST 1340MST	15	25	0	0			Tornado (F1)
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Weston County

25 SW Upton to 13 SW Upton	12	1340MST 1356MST	12	25	0	0			Tornado (F0)
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This tornadic thunderstorm developed 30 miles southeast of Gillette and moved east-northeast across a sparsely populated track of eastern Campbell county. Reports from the public were received about every 10 to 15 minutes, however no one continuously followed the storm. Some reports indicated that the tornado would briefly touch down, and then rise back up off the ground. This lead to media reports of numerous tornados. The storm did manage to blow the roof off a new house under construction, and tore sheet metal off of sheds and toss portable toilets around. This storm crossed into Weston County at 140 pm mst. Local law enforcement tracked the storm for 16 minutes. The tornado did not encounter any people or property as it moved across northwestern Weston County.

Weston County

Rochelle to 7 SE Clareton	12	1335MST 1439MST	20	30	0	0			Tornado (F1)
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This tornado developed over Rochelle in southwestern Weston County, moving northeast to 7 miles southeast of Clareton. No one continuously tracked this storm as spotters were focused on another tornado in the county at the same time. A plot of damage reports received does follow the track of the meso-cyclone of the parent thunderstorm. It is likely that this tornado displayed an "up and down" intermittent tendency like many of other storms in the area at this time. This storm did do damage when it encountered property. It tipped over a mobil home 7 miles northeast of Rochelle and another blown over 7 miles southeast of Clareton. This storm also damaged a barn roof and out buildings as well as breaking windows in a residence southeast of Clareton.

Weston County

Newcastle	12	1636MST 1646MST			0	0			Hail(0.75)
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Campbell County

7 N Wright	12	1830MST			0	0			Thunderstorm Wind (G52)
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Campbell County

Gillette Arpt	12	1857MST			0	0			Thunderstorm Wind (G54) ^M
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Campbell County

Echeta	12	1900MST			0	0			Thunderstorm Wind (G51) ^M
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Campbell County

6 S Rozet	12	1908MST			0	0			Thunderstorm Wind (G61)
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Weston County

19 SW Upton	12	1915MST			0	0			Thunderstorm Wind (G52)
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After tornados and large hail earlier in the day, another area of numerous thunderstorms developed over northeastern Wyoming.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WYOMING, Northeast

These storms produced very gusty outflow winds in contrast to the hail and tornados earlier.

Crook County									
3 S Moorcroft	12	1926MST			0	0			Thunderstorm Wind (G52)

Crook County									
Sundance	12	1930MST			0	0			Thunderstorm Wind (G50)
			Several small trees were blown down						

Campbell County									
15 S Gillette	27	2015MST 2025MST			0	0	0		Hail(1.75)

Campbell County									
6 SE Gillette	27	2020MST 2030MST			0	0	0		Hail(1.00)

Campbell County									
Wyodak	27	2046MST 2056MST			0	0	0		Hail(1.75)

Severe thunderstorms produced large hail across Campbell County.

Crook County									
16 N Hulett	30	0030MST 0040MST			0	0	0		Hail(1.00)

One inch diameter hail and 1.75 inches of rain was reported by a spotter.

Crook County									
35 N Sundance	30	0600MST 0800MST			0	0			Flash Flood

Locally heavy rain from thunderstorms overnight produced a flash flood on the Little Missouri River at Government Canyon. A road was washed out and eight feet of water was covering the roadway.



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Perkins County 17 W Lodgepole	01	0530MST			0	0	0		Hail(0.75)
Harding County 4 S Camp Crook	01	0805MST			0	0	0		Hail(1.75)
Harding County 3 SE Harding	01	0830MST			0	0	0		Hail(1.00)
Harding County 1 E Redig	01	0850MST			0	0	0		Hail(0.75)
Butte County Hoover	01	0909MST			0	0	0		Hail(1.00)
A Severe thunderstorm with large hail moved from southeastern Montana across Harding and Butte counties.									
Perkins County 8 WNW Usta	01	0835MST			0	0	0		Hail(0.75)
Mellette County Wood	01	0931MST			0	0	0		Hail(0.75)
Haakon County 4 E Billsburg	01	1035MST			0	0	0		Hail(1.00)
Tripp County 2 SSW Keyapaha	02	2100MST 2110MST			0	0	0		Hail(1.00)
Perkins County 2 S Lemmon	03	1515MST			0	0	0		Funnel Cloud
Perkins County Lemmon	03	1525MST			0	0	0		Hail(0.75)
Ziebach County 8 E Glad Vly to 11 SE Glad Vly	03	1625MST 1700MST			0	0	0		Hail(1.00)
Ziebach County 7 SE Dupree	03	1721MST			0	0	0		Hail(2.50)
Ziebach County 16 ESE Dupree	03	1724MST			0	0	0		Hail(1.00)
Haakon County 12 NE Kirley	03	1757MST			0	0	0		Hail(0.75)
Haakon County 7 NE Kirley	03	1805MST			0	0	0		Hail(1.75)
Lawrence County 4 NW Nemo	03	1802MST			0	0	0		Hail(0.88)
Pennington County Rapid City	03	1811MST			0	0	0		Hail(0.75)
Pennington County 2 NE Silver City	03	1817MST			0	0	0		Hail(0.75)
Pennington County Rapid City	03	1819MST			0	0			Funnel Cloud
A funnel cloud was reported by a local television meteorologist on the northwest side of Rapid City.									
Fall River County 2 NW Burdock	03	1820MST			0	0	0		Hail(0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

July 2001									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
					Killed	Injured	Property	Crops	
<u>SOUTH DAKOTA, West</u>									
Fall River County Ardmore	04	1930MST			0	0	0		Hail(1.25)
Bennett County Martin	04	2200MST 2215MST			0	0	0		Hail(0.88)
Bennett County 10 SE Martin	04	2240MST			0	0	0		Thunderstorm Wind (G60)
		1 foot diameter tree down in Martin along with dime sized hail.							
Bennett County 10 W Martin	05	0010MST			0	0	0		Hail(1.25)
Fall River County 4 SE Burdock	06	1930MST			0	0	0		Hail(1.50)
Fall River County 4 SE Burdock	06	1930MST			0	0	2K		Thunderstorm Wind (G70)
		Large hail and damaging wind gusts broke windows and tore off part of a barn roof, and moved a horse trailer 200 feet. Several trees were also blown over.							
Pennington County 1.5 E Rochford	07	0700MST			0	0	0		Lightning
Meade County 10 S Sturgis	08	1130MST			0	0	0		Lightning
Lawrence County 4 SE Spearfish	08	1415MST			0	0	0		Lightning
		Lightning ignited several fires on July 7 and 8. No structures or crops were damaged however over 100 acres of mainly forests and shrubs were burned.							
Pennington County Johnson Siding	07	1325MST			0	0	0		Hail(0.75)
Pennington County Keystone	07	1405MST			0	0	0		Hail(1.75)
		A severe thunderstorm moved from Johnson Siding through Keystone in Pennington county, producing large hail							
Custer County 12 W Custer	07	1743MST	1	25	0	0	0		Tornado (F0)
		A tornado was reported by an experienced and well known spotter. A photo of the tornado was taken before rain and terrain obscured viewing of the tornado. No known damage was reported or observed by spotters.							
Custer County 6 W Custer	07	1827MST 1837MST			0	0	0		Hail(1.75)
		Golfball sized hail fell for 10 minutes							
Custer County Custer Co Arpt	07	1913MST			0	0	0		Thunderstorm Wind (G55) ^M
Lawrence County 10 SW Cheyenne Crossin	07	1945MST			0	0	0		Hail(1.00)
Pennington County Rockerville	08	1345MST			0	0	0		Hail(0.75)
Pennington County 5 W Rockerville	08	1345MST			0	0	0		Hail(2.00)
Custer County Hermosa	08	1415MST			0	0	0		Hail(2.00)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Pennington County									
2 SW Keystone	08	1420MST 1430MST			0	0	0		Hail(0.75)
Dime size hail fell for 10 minutes at Mt. Rushmore National Monument.									
Custer County									
1 NW Custer	08	1520MST			0	0	0		Hail(0.75)
Custer County									
Custer Co Arpt	08	1538MST			0	0	0		Hail(1.50)
Custer County									
2 N Blue Bell	08	1544MST			0	0	0		Hail(0.88)
Several thunderstorms moved across Custer County producing large hail.									
Custer County									
7 SW Custer	08	1630MST			0	0	0		Thunderstorm Wind (G98)
Straight-line winds from a thunderstorm downed approximately 2000 trees on National Forest land. Pea sized hail accumulated to three inches deep on the ground. Also, 15 people were evacuated due to propane tanks "knocked loose" by winds. No structural damage was reported.									
Fall River County									
Edgemont	08	1740MST 1741MST			0	0	0		Hail(2.25)
Fall River County									
9 W Hot Spgs	08	1810MST			0	0	0		Hail(1.75)
Shannon County									
Oglala	08	1810MST			0	0	0		Thunderstorm Wind (G52)
Custer County									
4 N Pringle	08	1810MST			0	0	5K		Thunderstorm Wind (G63)
Trees downed on power lines and a roof blown off a building.									
Pennington County									
3 N Sheridan	09	1105MST			0	0	0		Thunderstorm Wind (G52)
Pennington County									
3 N Sheridan	09	1110MST			0	0	0		Hail(0.75)
Todd County									
5 E Parmelee	09	1920MST			0	0	0		Hail(0.75)
Todd County									
5 ESE Parmelee	09	1925MST			0	0	0		Thunderstorm Wind (G52)
Fall River County									
15 W Ardmore	09	1930MST			0	0	0		Thunderstorm Wind (G52)
Harding County									
3 W Harding to 3 SE Harding	11	1600MST			0	0	0		Thunderstorm Wind (G60)
Several people reported "tremendous" winds as the storm passed Harding. Several tree branches were downed									
Pennington County									
Keystone	11	1645MST 1820MST			0	0			Flash Flood
1.00 to over 2.50 inches of rain fell in about 3 hours over the Grizzly Creek basin. As the creek rose, debris blocked bridges forcing water over roadways. Several homes and businesses along the creek channel reported water in basements.									
Pennington County									
3 SE Deerfield	13	1110MST			0	0	0		Hail(0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

Custer County								
4 N Custer	13	1254MST			0	0	0	Hail(1.00)
Custer County								
Custer Co Arpt	13	1326MST			0	0	0	Hail(0.75)
Custer County								
Pringle	13	1355MST			0	0	0	Hail(0.75)
Custer County								
Wind Cave to 1 S Wind Cave	13	1415MST 1420MST			0	0	0	Hail(1.75)
Fall River County								
4 N Hot Spgs	13	1435MST			0	0	0	Hail(1.75)
Lawrence County								
Deadwood to 2 SE Deadwood	14	1214MST 1225MST			0	0	0	Hail(1.00)
Perkins County								
3 N Usta	14	1300MST			0	0	0	Hail(0.75)
Ziebach County								
2 W Glad Vly	14	1305MST			0	0	0	Hail(0.75)
Bennett County								
Swett	14	1335MST			0	0	0	Thunderstorm Wind (G57)
Lawrence County								
5 SW Spearfish	15 17	1100MST 1430MST			0	0	0	Lightning

A forest fire was reported at 1 pm MDT July 17, on the south slope of Crow Peak southwest of Spearfish. The fire is believed to be ignited by lightning, however the last thunderstorm over the area occurred around 11 am July 15. U.S. Forest Service spokesman indicated the fire likely smoldered for a couple of days. The fire burned about 3 acres.

Pennington County								
Johnson Siding to Hisega	15	1125MST 1142MST			0	0	0	Hail(1.75)
Pennington County								
Johnson Siding	15	1154MST			0	0	0	Hail(1.00)
Pennington County								
Rapid City	15	1215MST			0	0	0	Hail(0.88)
Pennington County								
Rapid City	15	1215MST			0	0	0	Thunderstorm Wind (G65) ^M
Pennington County								
5 NW Rapid City to Rapid City	15	1220MST 1400MST			0	0	0	Flash Flood

A supercell thunderstorm developed just east of Pactola Reservoir and produced severe hail and wind gusts to 75 mph. As the storm approached Rapid City, rainfall became very heavy and overwhelmed street drainages in downtown Rapid City. Autos were reported to be moved "several feet" in flooded downtown streets. Water covered Nemo road in northwestern Rapid City, where the river gage at Echo Canyon went over flood stage

Ziebach County								
13 W Cherry Creek	15	1153MST			0	0	0	Thunderstorm Wind (G58) ^M
Haakon County								
6 N Milesville	15	1230MST			0	0	0	Hail(0.75)
Pennington County								
15 SE Rapid City	15	1315MST 1330MST			0	0	0	Hail(0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Perkins County

8 N Bison	15	1915MST 2130MST			0	0	200K		Flash Flood
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Slow moving thunderstorms continually raked northern Perkins County during the afternoon and evening hours with several reports of 4 to 5 inches of rain. Water began flooding ranchers' yards by 715 pm MST. White Butte Road and several other minor roads were closed after water covered the roads. Two houses and a van were destroyed by flood waters that ran 5 to 10 feet deep. The worst flooding occurred in normally dry low-lying draws, not creeks.

Harding County

9 S Reva	15	2055MST			0	0	0		Hail(0.75)
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Harding County

Camp Crook	18	1950MST			0	0	0		Thunderstorm Wind (G50) ^M
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Harding County

9 SW Ladner	18	1955MST			0	0	2K		Thunderstorm Wind (G69)
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Harding County

2 E Ladner	18	2000MST			0	0	0		Hail(0.75)
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Harding County

2 E Ladner	18	2000MST			0	0	0		Thunderstorm Wind (G52)
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Harding County

1 N Buffalo	18	2007MST			0	0	0		Thunderstorm Wind (G65) ^M
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A supercell thunderstorm moved across Harding county producing damaging outflow winds.

Harding County

3 SSE Ludlow	18	2010MST			0	0	0		Hail(0.88)
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Perkins County

13 W Lodgepole	18	2045MST			0	0	0		Thunderstorm Wind (G52)
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Harding County

1 N Buffalo	18	2048MST			0	0	0		Thunderstorm Wind (G51) ^M
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Perkins County

Lemmon	18	2149MST			0	0	0		Thunderstorm Wind (G61)
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Shannon County

Kyle	19	1453MST			0	0	0		Hail(0.75)
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Shannon County

2 W Kyle	19	1455MST			0	0	0		Hail(1.00)
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Shannon County

3 S Kyle	19	1510MST			0	0	0		Hail(1.75)
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Shannon County

4 NE Kyle	19	1515MST			0	0	0		Hail(0.88)
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Shannon County

Rockyford	19	1535MST			0	0	0		Hail(1.75)
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Jackson County

7 SW Potato Creek	19	1550MST			0	0	0		Hail(0.75)
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Jackson County

Cactus Flats	19	1608MST			0	0	0		Thunderstorm Wind (G52)
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Pennington County

8 S Wall	19	1608MST 1616MST			0	0	0		Hail(1.75)
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Jackson County

10 S Kadoka	19	1649MST			0	0	0		Hail(0.75)
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National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

July 2001									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KilledInjuredPropertyCrops									
<u>SOUTH DAKOTA, West</u>									
Harding County									
4 S Camp Crook	19	1653MST			0	0	0		Hail(0.88)
Harding County									
3 SE Harding	19	1710MST 1730MST			0	0	0		Hail(1.25)
Harding County									
8 NW Redig	19	1750MST 1800MST			0	0	0		Hail(1.75)
Harding County									
5 N Redig	19	1800MST			0	0	0		Hail(2.00)
Jackson County									
4 SE Interior	19	1715MST			0	0	0		Hail(0.75)
Custer County									
6 NE Blue Bell	19	1752MST			0	0	0		Hail(0.88)
Harding County									
3 SE Harding	19	1819MST			0	0	0		Hail(1.00)
Harding County									
10 S Buffalo	19	1841MST			0	0	0		Hail(1.75)
Jackson County									
8 NW Kadoka	19	1825MST			0	0	0		Hail(1.00)
Ziebach County									
Dupree	19	1833MST			0	0	0		Thunderstorm Wind (G52)
Ziebach County									
Dupree	19	1838MST			0	0	0		Hail(1.75)
Perkins County									
6 SW White Butte	19	1928MST			0	0	0		Thunderstorm Wind (G52)
Perkins County									
Meadow	19	1930MST 1940MST			0	0	0		Thunderstorm Wind (G52)
Perkins County									
Shadehill	19	1930MST			0	0	0		Hail(1.00)
Bennett County									
3 SW Swett to 3 NW Swett	21	1530MST 1545MST			0	0	0		Hail(1.00)
Pennington County									
3 S Wall to 3 SW Wall	21	1647MST 1652MST			0	0	0		Hail(1.50)
Pennington County									
7 NW Wall	21	1718MST			0	0	0		Hail(1.50)
Pennington County									
Creighton	21	1810MST			0	0	0		Hail(1.75)
Pennington County									
13 N Wall	21	1735MST 1750MST			0	0	0		Hail(1.50)
Meade County									
3 NW Ellsworth Afb	21	1820MST			0	0	0		Hail(0.88)
Meade County									
1 E Ellsworth Afb	21	1850MST			0	0	0		Hail(0.75)
Butte County									
35 W Hoover	22	1800MST			0	0	0		Thunderstorm Wind (G50)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

Several tree branches were blown down.

Butte County

25 NE Newell	22	1900MST			0	0	0	10K	Hail(1.00)
Hail destroyed 150 acres of alfalfa and millet.									

Meade County

10 S Mud Butte	22	1910MST			0	0	0		Hail(0.75)
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Meade County

10 S Mud Butte	22	1910MST			0	0	0		Thunderstorm Wind (G52)
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Meade County

Red Owl	22	1930MST			0	0	0		Hail(1.00)
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Meade County

Red Owl	22	1930MST			0	0	0		Thunderstorm Wind (G52)
Thunderstorm winds broke a 10 inch tree limb.									

Meade County

15 SW Faith	22	1945MST	0.5	10	0	0	0		Tornado (F0)
A trained spotter reported a rapidly formed funnel cloud that briefly touched down, then dissipated									

Meade County

20 S Faith	22	2012MST	1	10	0	0	0		Tornado (F0)
A fireman, who was a trained storm spotter, reported seeing a tornado form and momentarily touch the ground south of Faith.									

Ziebach County

4 N Bridger	22	2030MST			0	0	0		Hail(2.75)
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Lawrence County

12 W Spearfish	22	2100MST			0	0	0		Hail(0.75)
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Haakon County

4 NE Milesville	22	2100MST			0	0	0		Funnel Cloud
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Haakon County

2 S Milesville	22	2110MST			0	0	0		Hail(0.75)
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Haakon County

7 E Billsburg	22	2115MST 2130MST			0	0	0		Hail(1.00)
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Haakon County

7 E Billsburg	22	2115MST			0	0	0		Thunderstorm Wind (G52)
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Haakon County

2 N Kirley	22	2200MST			0	0	50K		Thunderstorm Wind (G50)
An old barn and fences were blown down.									

Lawrence County

2 SE Deadwood	22	2122MST			0	0	0		Hail(0.75)
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Meade County

Union Center	22	2157MST			0	0	0		Thunderstorm Wind (G61)
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Meade County

7 S Enning	22	2200MST			0	0	0		Thunderstorm Wind (G52)
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Jackson County

5 W Cottonwood	23	0010MST			0	0	0		Thunderstorm Wind (G50)
Several tree limbs were broken off.									

Pennington County

9 NE Creighton	23	0045MST			0	0	0		Thunderstorm Wind (G52)
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National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Lawrence County

9 SW Cheyenne Crossing	23	1700MST			0	0	0		Hail(1.00)
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Lawrence County

Lead	23	1710MST			0	0	0		Hail(0.75)
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Butte County

3 S Belle Fourche to 3 SSE Belle Fourche	23	2130MST 2200MST			0	2	0		Hail(1.00)
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Butte County

3 S Belle Fourche to 3 SSE Belle Fourche	23	2130MST 2200MST			0	5	213K		Thunderstorm Wind (G78)
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A strong thunderstorm moved from the southwest to the northeast across southwestern Butte County. This storm exhibited very subtle bowing, but otherwise there was little to note about it's structure. Damage from this storm was limited to a residential mobile and modular home area perched on a broad hill. The homes were situated on 1 acre lots, so they were not densely packed. The damage primarily consisted of rolled and broken mobile homes. The damage area was limited to an area less than one mile in diameter. Five mobile homes were rolled and destroyed. Four mobile and modular homes sustained major roof damage. The mobile homes that were destroyed were scattered between homes which were completely undamaged. Examination of destroyed homes indicated that they were not tied down or had inadequate or no skirting at all. Homes that had plywood skirting and were tied down weathered the storm. Debris patterns provided evidence of diffluent winds, suggesting straight-line downburst winds. Five people recieved minor injuries from side being inside rolled mobile homes. Two injuries were the result of wind driven hail after escaping a destroyed mobile home.

Ziebach County

13 W Cherry Creek	23	2328MST			0	0	0		Thunderstorm Wind (G54) ^M
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Haakon County

16 NW Philip	24	0100MST			0	0	0		Thunderstorm Wind (G52)
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Haakon County

4 N Kirley to 9 NE Kirley	24	0130MST 0200MST			0	0	0		Thunderstorm Wind (G60)
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Pennington County

13 SE Wall	25	1428MST			0	0	0		Hail(0.88)
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Meade County

Piedmont	25	1445MST			0	0	0		Hail(0.75)
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Meade County

Black Hawk	25	1455MST 1500MST			0	0	0		Hail(2.75)
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Pennington County

20 SE Quinn	25	1510MST			0	0	0		Hail(0.75)
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Pennington County

20 SE Quinn	25	1510MST			0	0	0		Thunderstorm Wind (G52)
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Jackson County

4 SE Interior	25	1515MST			0	0	0		Hail(0.75)
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Jackson County

9 SW Wanblee to 9 S Wanblee	25	1540MST 1740MST			0	0	0		Hail(1.75)
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Jackson County

6 S Wanblee	25	1620MST			0	0	0		Hail(2.75)
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Bennett County

13 N Martin	25	1650MST			0	0	0		Hail(0.88)
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National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Jackson County									
Longvalley	25	1655MST			0	0	0		Hail(0.75)
Bennett County									
5 NE Martin	25	1730MST			0	0	0		Hail(1.75)
Bennett County									
8 E Tuthill	25	1740MST	1	10	0	0	0		Tornado (F0)
Path length and width estimated.									
Bennett County									
8 SE Martin	25	1805MST			0	0	0		Hail(1.75)
Bennett County									
8 SE Martin	25	1805MST			0	0	0		Thunderstorm Wind (G52)
Three inch diameter tree branches were broken off.									
Pennington County									
Johnson Siding	25	1528MST			0	0	0		Hail(0.75)
Shannon County									
12 S Kyle	25	1555MST			0	0	0		Hail(0.88)
Perkins County									
8 SSE Meadow	25	1850MST			0	0	0		Thunderstorm Wind (G52)
Lawrence County									
Spearfish	26	1601MST			0	0	0		Hail(0.75)
Pennington County									
New Underwood	26	1715MST			0	0	0		Thunderstorm Wind (G57)
Meade County									
15 S Hereford	26	1720MST			0	0	0		Thunderstorm Wind (G52)
Several tree limbs down.									
Harding County									
1.5 E Redig	26	1735MST			0	0	0		Thunderstorm Wind (G52) ^M
Custer County									
8 SE Blue Bell	27	1512MST			0	0	0		Hail(0.75)
Meade County									
4 SW Enning to 7 S Enning	28	1350MST 1450MST			0	0	0		Hail(2.00)
Meade County									
4 NE Elm Spgs	28	1515MST			0	0	0		Hail(1.50)
Ziebach County									
13 W Cherry Creek	28	1412MST			0	0	0		Thunderstorm Wind (G59) ^M
Meade County									
Red Owl	28	1515MST			0	0	0		Thunderstorm Wind (G50)
4 inch diameter tree limbs were broken off.									
Pennington County									
14 NW Creighton to 6 NW Creighton	28	1520MST 1620MST			0	0	0		Hail(2.75)
Haakon County									
2 SW Grindstone to 3 SE Grindstone	28	1615MST 1620MST			0	0	10K		Hail(2.00)
Large hail broke windows in 3 homes and damaged some crops.									
Pennington County									
7 E Creighton	28	1625MST			0	0	0		Hail(0.88)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

July 2001								
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	
<u>SOUTH DAKOTA, West</u>								
Meade County								
Faith	28	1535MST			0	0	0	Hail(0.88)
Haakon County								
3.5 E Milesville	28	1610MST			0	0	0	Hail(0.88)
Haakon County								
17 N Midland	28	1629MST			0	0	0	Thunderstorm Wind (G52)
Haakon County								
13 NE Ottumwa	28	1640MST	1	10	0	0	0	Tornado (F0)
		Path length and width estimated.						
Jackson County								
2 E Cottonwood	28	1650MST			0	0	2K	Thunderstorm Wind (G64)
		Windows were broken out of a home.						
Jackson County								
Cottonwood to 2 E Cottonwood	28	1655MST 1711MST			0	0	0	Hail(1.25)
Haakon County								
11 NW Philip	28	1655MST			0	0	0	Hail(1.75)
Haakon County								
4 W Philip	28	1658MST			0	0	0	Hail(1.75)
Haakon County								
4 W Philip	28	1704MST			0	0	0	Funnel Cloud
Jackson County								
Kadoka	28	1739MST			0	0	0	Hail(0.88)
Mellette County								
10 NE White River	28	1800MST			0	0	0	Hail(0.75)
Mellette County								
8 W Cedar Butte	28	1805MST			0	0	0	Hail(0.75)
Mellette County								
Cedar Butte	28	1810MST			0	0	0	Thunderstorm Wind (G50)
		A big tree limb was broken off.						
Mellette County								
12 NE Wood	28	1900MST			0	0	0	Hail(0.88)
Mellette County								
12 NE Wood	28	1900MST			0	0	0	Thunderstorm Wind (G50)
Todd County								
6 E Parmelee	28	1855MST			0	0	0	Hail(0.75)
Tripp County								
1 S Winner	28	1920MST			0	0	0	Funnel Cloud
		A few funnel clouds were reported by public.						
Tripp County								
1 S Winner	28	1920MST			0	0	0	Thunderstorm Wind (G52)
Todd County								
9 SE Mission	28	1930MST 1940MST			0	0	0	Hail(0.88)
Tripp County								
5 SSE Keyapaha	28	2015MST			0	0	0	Thunderstorm Wind (G52)
Tripp County								
Winner	30	0501MST			0	0	0.50K	Thunderstorm Wind (G56) ^M



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

SOUTH DAKOTA, West

A thunderstorm over Winner produced a heat burst with damaging winds. Temperatures at the Winner airport jumped to 92F. One power pole was blown down.

Fall River County

12 S Hot Spgs	30	1615MST	0	0	0	Thunderstorm Wind (G50)
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Thunderstorms winds damaged construction signs. "Large" hail was also reported, but no size was given.

Fall River County

Smithwick to 2 N Smithwick	30	1700MST	0	0	0	Thunderstorm Wind (G65)
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One large tree was uprooted and several power poles were blown down.

Fall River County

9 E Oral	30	1720MST	0	0	0	Thunderstorm Wind (G61)
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Several tree limbs were broken off.

Custer County

3 SSW Hermosa to Hermosa	30	1800MST	0	0	0	Thunderstorm Wind (G57)
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Pennington County

1 W Caputa	30	1815MST	0	0	0	Thunderstorm Wind (G52)
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Pennington County

(Rap)Rapid City Arpt	30	1822MST	0	0	0	Thunderstorm Wind (G57)^M
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Pennington County

Rapid City	30	1823MST	0	0	0	Thunderstorm Wind (G63)^M
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Pennington County

2 E Rapid City	30	1830MST	0	0	2K	Thunderstorm Wind (G61)
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Several power poles were blown down by thunderstorm winds.

Pennington County

9 NE Scenic	30	1840MST	0	0	0	Thunderstorm Wind (G52)^M
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Meade County

Hereford	30	1845MST	0	0	0	Thunderstorm Wind (G61)
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Cars were reported "moved", not rolled, by thunderstorm winds.

Meade County

6 SW Elm Spgs	30	1900MST	0	0	0	Thunderstorm Wind (G60)
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A 12 inch diameter tree was snapped.

Pennington County

12 N Wall	30	1914MST	0	0	0	Thunderstorm Wind (G61)
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Meade County

Enning	30	1915MST	0	0	0	Funnel Cloud
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Meade County

Red Owl	30	1920MST	0	0	0	Thunderstorm Wind (G52)
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6 inch tree limbs were broken off.

Meade County

4 SSW Plainview	30	1934MST	0	0	0	Thunderstorm Wind (G52)
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Ziebach County

13 W Cherry Creek	30	1950MST	0	0	0	Thunderstorm Wind (G66)^M
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Ziebach County

8 NW Cherry Creek	30	1955MST	0	0	0	Thunderstorm Wind (G61)
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Ziebach County

10 S Dupree	30	2035MST	0	0	0	Thunderstorm Wind (G59)^M
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National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Ziebach County									
10 NE Cherry Creek	30	2036MST			0	0	0		Thunderstorm Wind (G59) ^M
Haakon County									
3 SE Milesville	30	2024MST			0	0	0		Thunderstorm Wind (G52) ^M

WYOMING, Northeast

Crook County									
12 NE Moorcroft	03	1545MST 1600MST			0	0	0		Hail(0.75)
Weston County									
Upton	03	1632MST			0	0	0		Hail(0.75)
Campbell County									
6 E Rozet	03	1645MST			0	0	0		Hail(0.88)
Crook County									
7 W Moorcroft	03	1645MST			0	0	0		Hail(1.00)
Weston County									
Osage	03	1650MST			0	0	0		Hail(1.00)
Several severe thunderstorms moved across Northeastern Wyoming. The storms produced large hail as they moved across Campbell, Crook, and Weston counties.									
Weston County									
9 WSW Upton	03	1725MST			0	0	0		Hail(0.75)
Weston County									
14 SW Newcastle	03	1735MST			0	0	0		Hail(1.00)
Campbell County									
20 SW Gillette	04	1338MST			0	0	0		Funnel Cloud
Law enforcement officer reported seeing two funnel clouds									
Crook County									
10 SW Moorcroft	06	1730MST			0	0	0		Hail(0.75)
Weston County									
Osage	06	1915MST			0	0	5K		Thunderstorm Wind (G70)
At least one roof was blown off and damage to buildings were reported. Several tree limbs and power lines were down as well.									
Weston County									
3 E Rochelle	07	1700MST			0	0	0		Hail(0.75)
Weston County									
Clareton	07	1741MST			0	0	0		Hail(0.75)
Weston County									
30 SW Newcastle	07	1830MST			0	0	0		Hail(0.88)
Crook County									
Devils Tower	08	1430MST 1510MST			0	4	10K		Hail(2.50)
Crook County									
Devils Tower	08	1430MST			0	2	0		Lightning
Crook County									
New Haven	08	1430MST			0	0	0		Hail(1.00)
Crook County									
3 SE Devils Tower	08	1506MST			0	0	0		Hail(1.00)

A thunderstorm moved across Crook County producing very large hail. Hail ranging in size from pennies to tennis balls pelted



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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WYOMING, Northeast

Devil's Tower for 40 minutes. Four injuries (direct) were climbers on Devil's Tower who were hit by hail. Two injuries (direct) were the result of a lightning strike. The injuries were not life threatening, and it is not known if medical attention was administered. Damage to several cars was reported as "significant".

Crook County 18 SW Sundance	08	1610MST			0 0	0	Thunderstorm Wind (G57)
Weston County 7 W Clareton	08	2052MST			0 0	0	Hail(1.50)
Campbell County 2 N Rozet	09	1430MST 1435MST			0 0	6K	Thunderstorm Wind (G61)

A 25' x 64' double-wide mobile home had part of the roof ripped off by straight line thunderstorm winds. A witness observed "...hurricane type winds for 5 minutes with a torrential downpour, then it just let up for a minute or so, then a strong gust came and ripped the roof off." The roof portions landed on a truck parked next to the home and shattered. Debris was scattered up a nearby hillside. The roof was reportedly rebuilt two years ago and was only fastened at the corners. No other damage was reported in the sparsely developed subdivision.

Crook County Moorcroft	09	1430MST			0 0	250K	Lightning
Lightning struck a building in downtown Moorcroft. The fire ignited the building, a sporting goods store. Most of the building was destroyed.							
Campbell County 5 E Rozet	09	1447MST			0 0	0	Hail(0.75)
Crook County 3 S Moorcroft	09	1530MST			0 0	0	Thunderstorm Wind (G52)
Campbell County 8 S Wright	09	1555MST			0 0	0	Hail(0.75)
Campbell County 8 S Wright	09	1555MST			0 0	0	Thunderstorm Wind (G61) ^M
Campbell County 10 E Weston	22	1940MST			0 0	0	Hail(2.75)
Crook County 3 E Devils Tower	22	2000MST			0 0	0	Hail(0.75)
Crook County 7 S Sundance to 5 S Sundance	23	1600MST			0 0	0	Hail(2.00)
Crook County Sundance	23	1610MST			0 0	0	Hail(0.75)
Campbell County 8 NE Weston	23	1730MST			0 0	0	Hail(2.75)
Crook County Devils Tower	23	1810MST			0 0	0	Hail(0.88)
Campbell County Recluse	23	1825MST			0 0	0	Hail(1.25)
Campbell County 14 NNW Recluse	23	1830MST			0 0	0	Hail(1.75)
Campbell County 14 NNW Recluse	23	1830MST			0 0	0	Thunderstorm Wind (G52)
Campbell County 15 NE Recluse	23	1900MST			0 0	0	Hail(1.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WYOMING, Northeast

Campbell County

10 NE Weston	23	1910MST			0	0	0		Hail(0.75)
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Crook County

New Haven	23	1950MST			0	0	0		Thunderstorm Wind (G52)
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Campbell County

4 NE Gillette to 5 NE Gillette	26	1530MST 1545MST	1	20	0	0	0		Tornado (F0)
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Campbell County

4 NE Gillette to 5 NE Gillette	26	1540MST 1545MST	1	20	0	0	0		Tornado (F0)
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Twin tornados witnessed by Emergency manager northeast of Gillette. Described as thin "rope" tornados.

Crook County

New Haven	26	1632MST			0	0	0		Hail(1.00)
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Weston County

19 SW Upton	28	1800MST			0	0	0		Thunderstorm Wind (G52)
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Weston County

6 SW Rochelle	28	1800MST			0	0	0		Thunderstorm Wind (G52) ^M
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National Weather Service

Storm Data and Unusual Weather Phenomena



August 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Custer County

22 W Custer to 12 SW Custer	01 08	0000MST 1700MST			0	0	500K		Lightning
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Two large lightning fires ignited on July 30 and continued until Aug 8. The two fires grew until they were only a few miles apart in Custer County. No injuries were reported, however 26,800 total acres burned with these two fires. One historic cabin, seven out buildings, and one seasonal residence were destroyed. 1000 people fought this fire. During the week-long fire, over 173 hours of flight time were logged among numerous aircraft. 400,000 gallons of water was dropped from aircraft along with 357,000 gallons of fire retardant.

Jackson County

6 E Wanblee	03	1325MST 1330MST			0	0	0		Hail(0.75)
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Jackson County

13 SE Interior	03	1405MST			0	0	0		Hail(1.00)
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Jackson County

Cedar Pass	03	1415MST 1430MST			0	0	0		Thunderstorm Wind (G52)
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Perkins County

8 WNW Usta	08	1550MST			0	0	0		Thunderstorm Wind (G52)
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Lawrence County

7 N Deadwood	08	1615MST			0	0	0		Hail(1.75)
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Perkins County

10 S White Butte	08	1630MST			0	0	0		Hail(0.75)
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Perkins County

10 S White Butte	08	1640MST			0	0	0		Hail(1.75)
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Pennington County

3 N Sheridan	12	1425MST			0	0	0		Hail(0.75)
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Custer County

15 W Custer	12	1625MST			0	0	0		Hail(1.00)
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Custer County

20 W Custer	12	1800MST			0	0			Flash Flood
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Flash flooding occurred through Buck Springs & Gillette Canyons. Normally dry creek beds had water flowing from 18 inches to 4 feet deep and from 6 feet to 20 feet wide. Excessive run-off from scorched earth of the Jasper fire of 2000 contributed more to the flooding than did heavy rainfall.

Pennington County

Caputa	13	2315MST			0	0	0		Hail(1.00)
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Pennington County

2 N Farmingdale	13	2359MST			0	0	0		Hail(1.00)
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Fall River County

3 N Edgemont	14	0000MST			0	0	0		Hail(0.88)
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Perkins County

11 SE Zeona	14	1515MST			0	0	0		Hail(0.88)
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Butte County

9 E Castle Rock	14	1530MST			0	0	0		Hail(1.00)
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Meade County

10 SW Maurine	14	1605MST			0	0	0		Thunderstorm Wind (G52)
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National Weather Service

Storm Data and Unusual Weather Phenomena



August 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

Pennington County									
2 W Keystone	15	1447MST 1453MST			0	0	0		Hail(0.75)
Pennington County									
Rockerville	15	1505MST			0	0	0		Thunderstorm Wind (G52)
Lawrence County									
4 NW Nemo	20	1546MST 1552MST			0	0	0		Hail(0.88)
Lawrence County									
4 N Nemo	20	1645MST			0	0	0		Hail(0.75)
Pennington County									
Rapid City	22	1358MST			0	0	0		Hail(1.00)
Jackson County									
3 E Kadoka	23	1355MST			0	0	0		Hail(0.75)
Haakon County									
13 SW Milesville	23	1445MST			0	0	0		Hail(1.50)
Lawrence County									
2 S Dumont	25	1332MST			0	0	0		Hail(0.75)
Lawrence County									
13 S Lead	25	1340MST 1356MST			0	0	0		Hail(1.75)
Pennington County									
2 WNW Rochford	25	1403MST			0	0	0		Hail(0.75)
Shannon County									
10 WSW Kyle	25	1827MST			0	0	0		Hail(0.75)
Shannon County									
Kyle	25	1854MST			0	0	0		Hail(1.00)
Haakon County									
12 NE Philip	28	0230MST			0	0	0		Hail(0.88)
Custer County									
11 E Custer	28	1330MST			0	0	0		Hail(0.88)
Pennington County									
21 S Wall	28	1640MST			0	0	0		Hail(0.75)
Shannon County									
18 N Kyle	28	1640MST			0	0	0		Hail(0.75)

WYOMING, Northeast

Weston County									
1 E Newcastle to 3 E Newcastle	01 08	0000MST 1700MST			0	0	0		Lightning

Lightning ignited a fire east of Newcastle in Weston County. This fire blew up and crossed the state line into Custer County in South Dakota. The fire began in Weston County, Wyoming, however most of the 26,800 acres burned occurred across the state line in South Dakota.

Campbell County									
Wright to 10 N Gillette	04 07	1047MST 2359MST			0	0	0		Lightning

During the 3 day period from the 4th through the 7th, lightning started 12 fires across Campbell County. Most of the fires burned between 1/2 and 5 acres, burning a total of 30 acres.



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>WYOMING, Northeast</u>									
Weston County Upton	08	1555MST 1605MST			0	0	0		Hail(0.75)
Weston County Upton	08	1555MST			0	0	10K		Thunderstorm Wind (G58)
Part of a roof was blown off a house and into a neighbor's garage.									
Weston County Osage	08	1638MST			0	0	0		Thunderstorm Wind (G52)
Weston County 3 N Newcastle	08	1647MST			0	0	0		Hail(0.75)
Crook County 3 NE Moorcroft	15	1100MST			0	0	0		Lightning
Lightning ignited a fire around Keyhole Reservoir. The fire burned 172 acres									
Campbell County Gillette	27	2030MST			0	4	50K		Thunderstorm Wind (G52)
Thunderstorm wind gusts blew over a fifth-wheel trailer. Four injuries (direct) occurred to the four occupants of the trailer. The injured people were treated and released from a local hospital. The trailer was not tied, or had its wheels blocked, and awnings were extended. The trailer landed on an auto parked beside it.									



National Weather Service

Storm Data and Unusual Weather Phenomena



September 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

Custer County

12 S Pringle

01
04

2200MST
1800MST

0

0

0

Lightning

Lightning ignited a fire which burned 178 acres in southern Custer County.



National Weather Service

Storm Data and Unusual Weather Phenomena



October 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Property Damage	Estimated Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ013-031

Meade Co. Plains - Pennington Plains

23	1153MST 1337MST				0	0	0		High Wind (G60) ^M
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A strong cold front moved across western South Dakota during the morning of Oct 23. Behind the front winds increased. Sustained winds over Meade and Pennington counties were 45 to 51 mph. Gusts to 69 mph were measured over Meade county, and to 58 mph over Pennington county.

SDZ001>002-013>014-032 Harding - Perkins - Meade Co. Plains - Ziebach - Haakon

24	0056MST 0606MST				0	0	0		High Wind (G51) ^M
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A strong cold front moved across Northwestern South Dakota just after midnight on Oct. 24. Behind this front winds increased dramatically. Sustained winds increased to 40 to 45 mph with gusts ranging from 50 to near 60 mph.



National Weather Service

Storm Data and Unusual Weather Phenomena



November 2001

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

SOUTH DAKOTA, West

SDZ024>025-029-031>032- Northern Black Hills - Northern Foot Hills - Southern Black Hills - Pennington Plains - Haakon - Fall River Co. - Shannon -
041>044-046>047-049 Jackson - Bennett - Mellette - Todd - Tripp

26	0600MST 1800MST	0	0	0	Heavy Snow
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A low pressure system moved out of the Rockies and across the Central and Northern plains. This system brought snow to Western South Dakota starting late in the afternoon of November 25. Snowfall continued over night and through Nov. 26. By the morning of Nov. 26, heavy snow had accumulated over South Central South Dakota and by noon, much of Western South Dakota had recieved heavy snow. Most locations recieved 6 to 12 inches of total snowfall, with some counties of Southern South Dakota recieving 12 to 14 inches. The heaviest snow ocured just north of Deadwood in the Northern Black Hills, where 16.7 inches of snow fell.



National Weather Service

Storm Data and Unusual Weather Phenomena



December 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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SOUTH DAKOTA, West

SDZ024>025

Northern Black Hills - Northern Foot Hills

01	1620MST 2134MST				0	0	0		High Wind (G70) ^M
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An unusual high wind event occurred this day as strong southwesterly low-level winds combined with a strong surface pressure gradient to produce high winds. High wind events usually occur behind a cold front with strong northwest winds developing, southwest winds of this magnitude have not been noted over this area for several years.

SDZ025

Northern Foot Hills

03	0412MST				0	0	0		High Wind (G73) ^M
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A spotter in the foothills west of Spearfish measured a wind gust of 84 mph.

SDZ001-013-031

Harding - Meade Co. Plains - Pennington Plains

22	0955MST 1353MST				0	0	0		High Wind (G51) ^M
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A strong cold front moved across northwestern South Dakota during the morning. Behind this front, the surface pressure gradient tightened and strong low-level winds were able to reach the surface due to robust subsidence and boundary layer mixing.

SDZ013-031

Meade Co. Plains - Pennington Plains

26	1056MST 1255MST				0	0	0		High Wind (G50) ^M
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A tight surface pressure gradient developed behind a cold front. Sustained winds reached 40 mph with gusts to 58 mph.

SDZ024

Northern Black Hills

28	0800MST 1300MST				0	0	0		Heavy Snow
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Northwest winds and moisture combined to create topographically-enhanced snowfall over the northern Black Hills. Snow began in the morning and accumulated to six inches in Lead by noon. The snow quickly ended in the afternoon as winds weakened and drier air moved into the area.

WYOMING, Northeast

WYZ054>055-058

Gillette - South Campbell - Weston

01	1151MST 1851MST				0	0	0		High Wind (G53) ^M
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An unusual high wind event occurred this day as strong southwesterly low-level winds combined with a strong surface pressure gradient to produce high winds. High wind events usually occur behind a cold front with strong northwest winds developing, southwest winds of this magnitude have not been noted over this area for several years.